

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954548

Luminaire Tested: **GALN-SB7D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73338 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

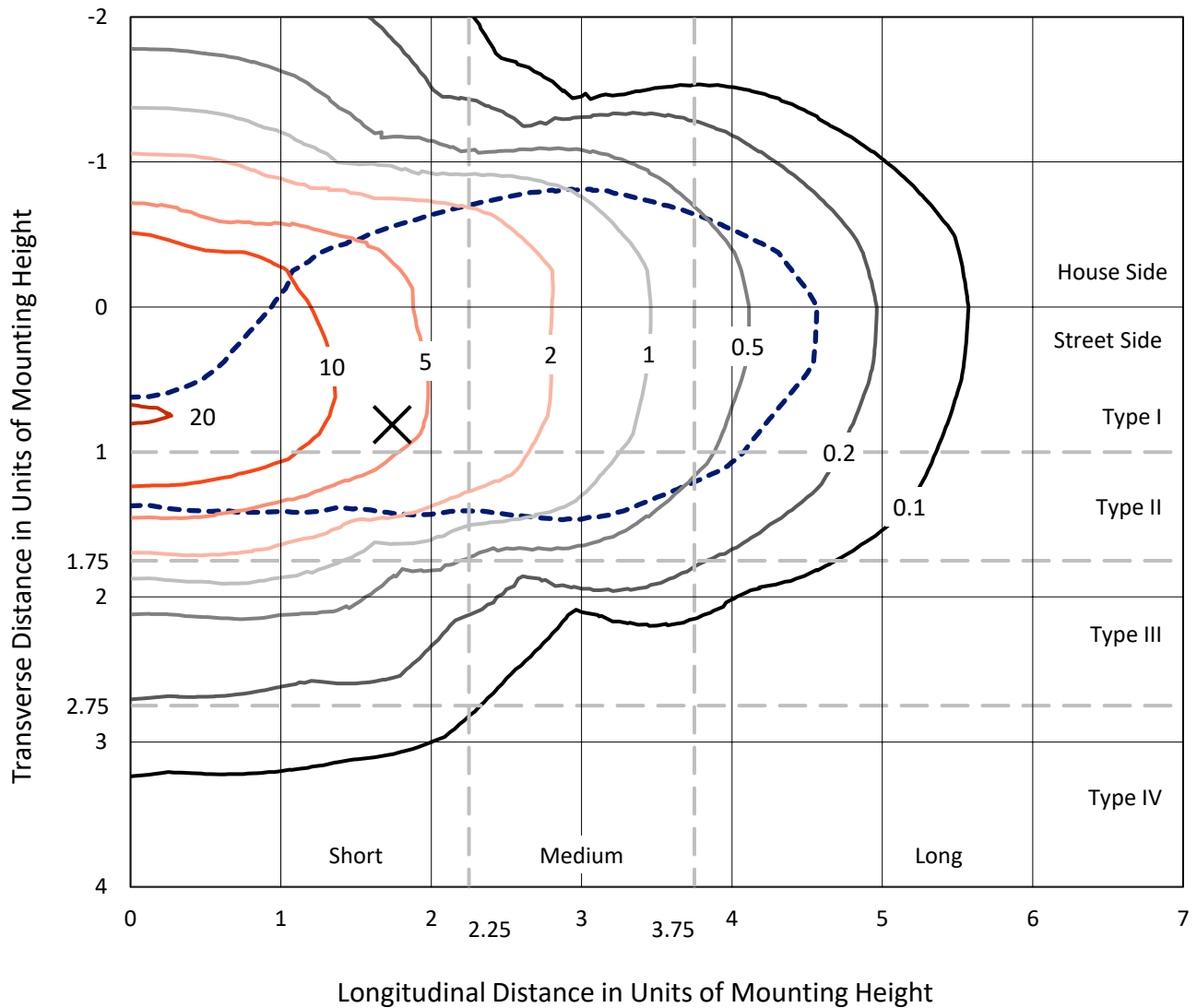
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

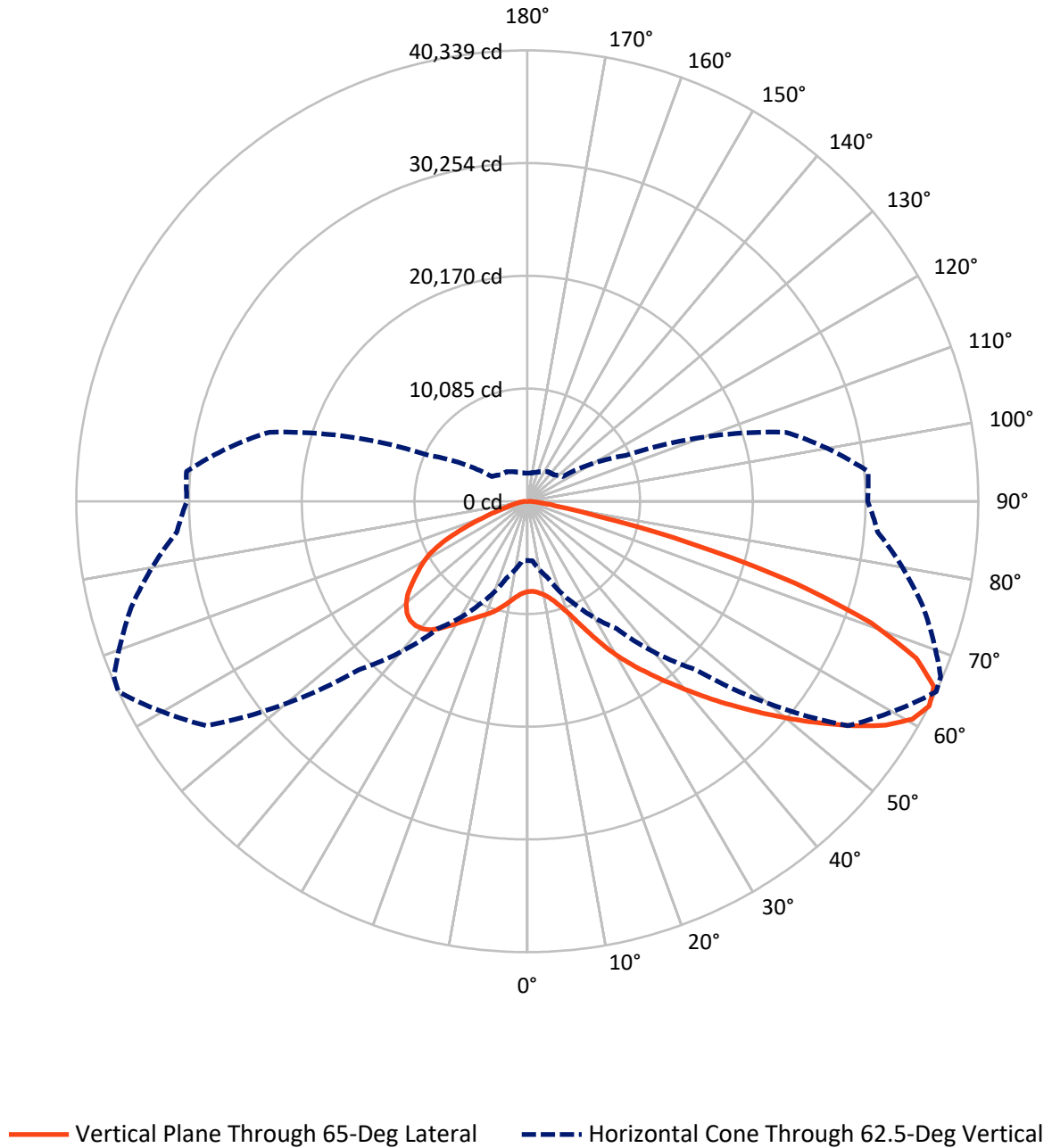
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23142.3 | 0.0 | 23142.3 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 50195.7 | 0.0 | 50195.7 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 73338.0 | 0.0 | 73338.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 805.7 | 1.1 |
| 10°-20° | 2732.3 | 3.7 |
| 20°-30° | 5540.0 | 7.6 |
| 30°-40° | 9586.8 | 13.1 |
| 40°-50° | 14507.8 | 19.8 |
| 50°-60° | 17009.5 | 23.2 |
| 60°-70° | 14260.4 | 19.4 |
| 70°-80° | 7872.9 | 10.7 |
| 80°-90° | 1022.7 | 1.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 73338.0 | 100.0 |
| 0°-180° | 73338.0 | 100.0 |

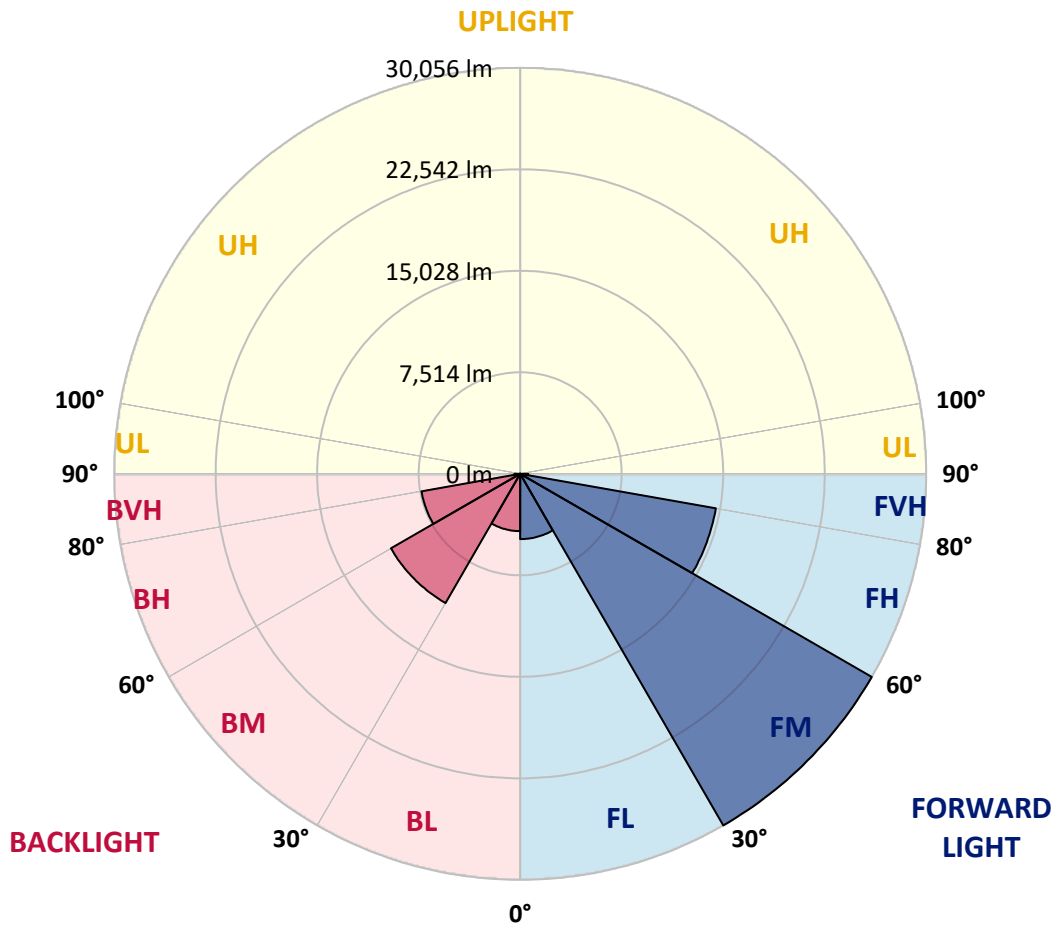


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4833.9 | 6.6 | | | |
| FM (30°-60°) | 30056.3 | 41.0 | | | |
| FH (60°-80°) | 14709.4 | 20.1 | | | G5 |
| FVH (80°-90°) | 596.0 | 0.8 | | | G4/750 |
| BL (0°-30°) | 4244.0 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 11047.8 | 15.1 | B5 | | |
| BH (60°-80°) | 7423.8 | 10.1 | B5 | | G5 |
| BVH (80°-90°) | 426.6 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 |
| 2.5° | 8028.3 | 8005.4 | 8024.5 | 8024.5 | 8032.1 | 8028.3 | 8054.9 | 8062.5 | 8073.9 | 8096.7 |
| 5° | 7948.4 | 7944.6 | 7978.8 | 8009.2 | 8039.7 | 8066.3 | 8100.6 | 8150.0 | 8157.6 | 8184.3 |
| 7.5° | 7921.7 | 7898.9 | 7952.2 | 7990.2 | 8062.5 | 8127.2 | 8218.5 | 8302.2 | 8336.5 | 8347.9 |
| 10° | 8127.2 | 8089.1 | 8138.6 | 8161.4 | 8222.3 | 8287.0 | 8393.5 | 8526.7 | 8564.7 | 8610.4 |
| 12.5° | 8477.2 | 8435.4 | 8507.7 | 8541.9 | 8599.0 | 8656.1 | 8728.4 | 8857.7 | 8876.7 | 8960.5 |
| 15° | 8956.6 | 8907.2 | 8952.8 | 8994.7 | 9089.8 | 9143.1 | 9215.4 | 9340.9 | 9340.9 | 9405.6 |
| 17.5° | 9607.3 | 9542.6 | 9576.8 | 9592.1 | 9652.9 | 9732.8 | 9854.6 | 9964.9 | 10022.0 | 9999.2 |
| 20° | 10577.5 | 10497.6 | 10497.6 | 10421.5 | 10398.7 | 10463.4 | 10623.2 | 10775.4 | 10836.3 | 10718.3 |
| 22.5° | 12034.8 | 11920.6 | 11856.0 | 11597.2 | 11494.5 | 11502.1 | 11661.9 | 11848.3 | 11897.8 | 11688.5 |
| 25° | 13887.8 | 13708.9 | 13621.4 | 13240.9 | 13008.8 | 12807.2 | 12932.7 | 13172.4 | 13240.9 | 12982.2 |
| 27.5° | 15740.7 | 15752.1 | 15668.4 | 15211.8 | 14827.6 | 14458.5 | 14393.8 | 14644.9 | 14717.2 | 14424.2 |
| 30° | 18339.4 | 18069.3 | 17909.5 | 17361.6 | 16813.7 | 16296.2 | 16029.9 | 16132.6 | 16151.6 | 15801.6 |
| 32.5° | 20580.5 | 20512.0 | 20169.6 | 19690.2 | 18986.3 | 18175.8 | 17730.7 | 17567.1 | 17536.6 | 17038.2 |
| 35° | 23133.6 | 23095.5 | 22734.1 | 22163.3 | 21402.4 | 20276.1 | 19473.3 | 19005.3 | 18967.2 | 18267.1 |
| 37.5° | 25728.5 | 25728.5 | 25374.6 | 24750.6 | 23963.0 | 22555.2 | 21333.9 | 20591.9 | 20470.2 | 19557.0 |
| 40° | 27798.3 | 27672.8 | 27737.5 | 27474.9 | 26573.2 | 25077.9 | 23399.9 | 22323.1 | 22159.5 | 21063.7 |
| 42.5° | 28974.0 | 28932.2 | 29320.3 | 29613.3 | 29244.2 | 28049.5 | 25675.2 | 24198.9 | 23970.6 | 22722.6 |
| 45° | 29236.6 | 29190.9 | 29883.4 | 30956.4 | 31473.8 | 30983.0 | 28148.4 | 26173.7 | 25895.9 | 24457.7 |
| 47.5° | 28631.6 | 28540.3 | 29556.2 | 31249.3 | 32908.3 | 33772.0 | 30827.0 | 28315.8 | 27912.5 | 26147.0 |
| 50° | 26812.9 | 26725.4 | 28262.5 | 30511.2 | 33391.5 | 35666.8 | 33733.9 | 30587.3 | 29970.9 | 27958.1 |
| 52.5° | 22859.6 | 22901.5 | 25310.0 | 28399.5 | 32756.1 | 36846.3 | 36237.5 | 32980.6 | 32238.6 | 29811.1 |
| 55° | 17806.8 | 17898.1 | 20858.3 | 24259.8 | 30214.4 | 36667.5 | 37945.9 | 35446.1 | 34708.0 | 31553.7 |
| 57.5° | 12750.1 | 13153.4 | 15927.2 | 19294.5 | 25332.8 | 33832.8 | 38318.8 | 37789.9 | 37074.6 | 33456.2 |
| 60° | 8264.2 | 8336.5 | 11190.1 | 14584.0 | 19290.7 | 28795.2 | 37561.6 | 39566.8 | 39007.5 | 35396.6 |
| 62.5° | 5296.4 | 5345.8 | 7084.7 | 10200.8 | 13883.9 | 21303.4 | 35012.4 | 40339.2 | 40167.9 | 36678.9 |
| 65° | 3892.4 | 3854.3 | 4759.9 | 6742.2 | 9352.4 | 13138.2 | 30062.2 | 39966.3 | 40304.9 | 37481.7 |
| 67.5° | 3249.4 | 3196.1 | 3641.3 | 4668.6 | 6890.6 | 7461.3 | 22243.2 | 37542.6 | 38783.0 | 37390.4 |
| 70° | 2960.2 | 2914.5 | 3184.7 | 3466.2 | 5376.3 | 4995.8 | 11212.9 | 32638.1 | 34548.2 | 36351.7 |
| 72.5° | 2507.4 | 2427.5 | 2796.6 | 3078.1 | 4181.5 | 3831.5 | 4634.3 | 25070.2 | 27398.8 | 33022.4 |
| 75° | 1944.3 | 1891.0 | 2206.8 | 2709.1 | 3142.8 | 2990.6 | 2929.7 | 15223.3 | 17764.9 | 25538.2 |
| 77.5° | 1541.0 | 1468.7 | 1757.8 | 2111.7 | 2827.0 | 2256.3 | 2134.5 | 6555.8 | 9074.6 | 16303.8 |
| 80° | 1160.5 | 1095.8 | 1335.5 | 1670.3 | 2172.6 | 1700.8 | 1381.2 | 2674.8 | 3420.6 | 8260.4 |
| 82.5° | 825.7 | 768.6 | 932.2 | 1225.2 | 1461.1 | 1525.8 | 848.5 | 1499.1 | 1685.6 | 3184.7 |
| 85° | 528.9 | 494.6 | 624.0 | 768.6 | 928.4 | 981.7 | 517.5 | 783.8 | 859.9 | 1312.7 |
| 87.5° | 289.2 | 235.9 | 334.8 | 357.7 | 429.9 | 391.9 | 247.3 | 285.4 | 308.2 | 475.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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 CATALOG NUMBER: GALN-SB7D-735-U-T2U

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 8081.5 | 0° | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 | 8081.5 |
| 8096.7 | 2.5° | 8112.0 | 8123.4 | 8161.4 | 8172.8 | 8199.5 | 8233.7 | 8256.6 | 8279.4 | 8279.4 | 8302.2 |
| 8218.5 | 5° | 8222.3 | 8248.9 | 8328.8 | 8370.7 | 8439.2 | 8507.7 | 8549.5 | 8599.0 | 8629.4 | 8644.6 |
| 8412.6 | 7.5° | 8435.4 | 8477.2 | 8591.4 | 8663.7 | 8781.6 | 8876.7 | 8941.4 | 9009.9 | 9025.1 | 9067.0 |
| 8682.7 | 10° | 8724.6 | 8774.0 | 8903.4 | 9040.4 | 9181.1 | 9299.1 | 9360.0 | 9409.4 | 9428.5 | 9436.1 |
| 9028.9 | 12.5° | 9055.6 | 9127.9 | 9295.3 | 9462.7 | 9611.1 | 9713.8 | 9729.0 | 9717.6 | 9664.4 | 9618.7 |
| 9455.1 | 15° | 9462.7 | 9527.4 | 9713.8 | 9896.4 | 10041.0 | 10060.1 | 9964.9 | 9904.1 | 9839.4 | 9828.0 |
| 9930.7 | 17.5° | 9949.7 | 9984.0 | 10155.2 | 10334.0 | 10345.4 | 10280.7 | 10140.0 | 10082.9 | 10022.0 | 9980.2 |
| 10550.9 | 20° | 10516.6 | 10505.2 | 10627.0 | 10703.1 | 10623.2 | 10425.3 | 10212.3 | 10117.1 | 10056.3 | 10006.8 |
| 11311.9 | 22.5° | 11193.9 | 11106.4 | 11091.2 | 11072.2 | 10859.1 | 10444.3 | 10155.2 | 10033.4 | 9938.3 | 9869.8 |
| 12373.4 | 25° | 12179.4 | 11844.5 | 11612.4 | 11483.1 | 11003.7 | 10341.6 | 9972.5 | 9702.4 | 9523.6 | 9405.6 |
| 13670.9 | 27.5° | 13412.1 | 12849.0 | 12263.1 | 11947.3 | 11003.7 | 10132.4 | 9531.2 | 9093.6 | 8800.6 | 8678.9 |
| 14926.5 | 30° | 14587.8 | 13998.1 | 13134.4 | 12506.6 | 10977.0 | 9789.9 | 8819.7 | 8210.9 | 7868.5 | 7746.7 |
| 15999.5 | 32.5° | 15592.3 | 14949.3 | 14059.0 | 13119.2 | 10912.3 | 9234.4 | 7936.9 | 7263.5 | 6932.5 | 6787.9 |
| 17061.0 | 35° | 16524.5 | 15839.6 | 14987.4 | 13792.6 | 10741.1 | 8420.2 | 6966.7 | 6453.0 | 6084.0 | 5851.9 |
| 18141.6 | 37.5° | 17479.5 | 16665.3 | 15866.3 | 14401.4 | 10432.9 | 7468.9 | 6221.0 | 5783.4 | 5349.6 | 5037.6 |
| 19290.7 | 40° | 18518.3 | 17544.2 | 16806.1 | 14762.9 | 9926.9 | 6563.4 | 5642.6 | 5243.1 | 4782.7 | 4451.7 |
| 20614.7 | 42.5° | 19732.0 | 18598.2 | 17852.4 | 14949.3 | 9234.4 | 5920.4 | 5265.9 | 4874.0 | 4440.3 | 4170.1 |
| 22034.0 | 45° | 20999.0 | 19758.7 | 18807.4 | 14945.5 | 8462.0 | 5619.8 | 5144.2 | 4756.1 | 4276.7 | 3995.1 |
| 23491.2 | 47.5° | 22326.9 | 20972.4 | 19633.1 | 14702.0 | 7792.4 | 5661.6 | 5075.7 | 4501.2 | 3972.3 | 3698.3 |
| 24963.7 | 50° | 23658.6 | 22300.3 | 20432.1 | 14245.4 | 7507.0 | 5570.3 | 4820.8 | 4143.5 | 3519.5 | 3272.2 |
| 26344.9 | 52.5° | 24978.9 | 23711.9 | 21120.8 | 13594.8 | 7217.8 | 5231.7 | 4493.5 | 3679.3 | 3333.1 | 3161.8 |
| 27771.7 | 55° | 26306.8 | 25108.3 | 21870.4 | 12647.4 | 6494.9 | 4836.0 | 3945.6 | 3504.3 | 3184.7 | 3028.7 |
| 29168.1 | 57.5° | 27638.5 | 26721.6 | 22581.9 | 11700.0 | 5585.5 | 4349.0 | 3645.1 | 3291.2 | 3036.3 | 2903.1 |
| 30336.2 | 60° | 29023.5 | 28566.9 | 23316.2 | 10828.6 | 4687.6 | 3725.0 | 3424.4 | 3120.0 | 2861.3 | 2712.9 |
| 31458.6 | 62.5° | 30450.3 | 30598.7 | 23890.7 | 9706.2 | 3861.9 | 3344.5 | 3226.5 | 2914.5 | 2663.4 | 2522.6 |
| 32387.0 | 65° | 31888.6 | 32558.2 | 24267.4 | 8150.0 | 3131.4 | 2983.0 | 3013.5 | 2690.0 | 2435.1 | 2313.4 |
| 33068.1 | 67.5° | 32972.9 | 33969.8 | 24160.9 | 6167.7 | 2568.3 | 2640.6 | 2747.1 | 2454.1 | 2214.4 | 2119.3 |
| 32957.7 | 70° | 33094.7 | 33802.4 | 23110.7 | 4223.4 | 2149.7 | 2305.7 | 2450.3 | 2222.0 | 1974.7 | 1906.2 |
| 31405.3 | 72.5° | 31473.8 | 31519.5 | 20184.8 | 2758.5 | 1818.7 | 2024.2 | 2138.3 | 1986.1 | 1746.4 | 1677.9 |
| 27474.9 | 75° | 27223.8 | 26067.1 | 14819.9 | 1818.7 | 1521.9 | 1738.8 | 1845.4 | 1738.8 | 1506.7 | 1521.9 |
| 20557.7 | 77.5° | 20626.2 | 18461.2 | 8998.5 | 1293.7 | 1270.8 | 1461.1 | 1605.7 | 1529.6 | 1331.7 | 1495.3 |
| 10337.8 | 80° | 10627.0 | 9987.8 | 4014.1 | 966.4 | 1004.5 | 1168.1 | 1320.3 | 1221.4 | 1053.9 | 1004.5 |
| 2309.6 | 82.5° | 2435.1 | 2830.8 | 1582.8 | 692.5 | 726.7 | 840.9 | 1008.3 | 917.0 | 757.2 | 639.2 |
| 962.6 | 85° | 852.3 | 932.2 | 700.1 | 433.8 | 426.1 | 525.1 | 684.9 | 612.6 | 513.7 | 410.9 |
| 407.1 | 87.5° | 270.1 | 353.9 | 262.5 | 175.0 | 182.6 | 235.9 | 315.8 | 289.2 | 239.7 | 156.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 8081.5 |
| 8302.2 |
| 8652.3 |
| 9051.8 |
| 9417.0 |
| 9618.7 |
| 9828.0 |
| 9984.0 |
| 10010.6 |
| 9892.6 |
| 9451.3 |
| 8739.8 |
| 7819.0 |
| 6860.2 |
| 5928.0 |
| 5121.3 |
| 4516.4 |
| 4223.4 |
| 4040.8 |
| 3736.4 |
| 3287.4 |
| 3161.8 |
| 3013.5 |
| 2880.3 |
| 2701.5 |
| 2518.8 |
| 2309.6 |
| 2123.1 |
| 1910.0 |
| 1674.1 |
| 1468.7 |
| 1316.5 |
| 917.0 |
| 631.6 |
| 433.8 |
| 163.6 |
| 0.0 |

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